

Claims

1. An overpressure valve (10) for a packaging container, having a base plate (12), which is connectable to one wall (1) of the packaging container and has at least one passage opening (16) and is partially covered by a diaphragm (13) that has at least one passage (27, 28), the diaphragm being joined in its peripheral regions (23) at least partly to the base plate (12), so that upon an overpressure in the packaging container, a conduit is created from the at least one passage opening (16) in the base plate (12) to the at least one passage (27, 28), in order to conduct gas out of the packaging container through an opening (3) in the wall (1), characterized in that the overpressure valve (10) is connected to a wall (1) that forms the inside (2) of the packaging container; and that on the side of the base plate (12) oriented toward the inside (2), a connecting element (14) is disposed, which has a closed contour, and the at least one passage (27, 28) in the diaphragm (13) is disposed inside the contour of the connecting element (14).
2. The overpressure valve of claim 1, characterized in that the at least one passage is embodied as a slit (27, 28).
3. The overpressure valve of claim 1 or 2, characterized in that the at least one passage opening (16) in the base plate (12) has the form of two intersecting circles (17, 18).
4. The overpressure valve of one of claims 1 through 3, characterized in that the diaphragm (13) covers the base plate (12) completely and is joined, on the side toward the base plate (12), to the base plate (12) over the full surface in a peripheral region that extends all the way around.
5. The overpressure valve of claim 4, characterized in that the diaphragm (13) has two layers (20, 21) comprising flexible plastic, which are joined to one another over the full surface by

means of an adhesive layer (25), and the layer (20) of the diaphragm (13) oriented toward the base plate (12) leaves an edge (23), which extends all the way around, on the other layer (21) of the diaphragm (13) free, that edge being joined to the base plate (12).

6. The overpressure valve of claim 5, characterized in that the at least one passage (27, 28) is embodied in the region of overlap of the two layers (20, 21) of the diaphragm (13).

7. The overpressure valve of one of claims 1 through 6, characterized in that the connecting element (14), on the side remote from the base plate (12), has a surface (34) that is for instance rippled, so that the connecting element (14) can be joined to the inside (2) of the packaging container by means of ultrasonic welding.

8. The overpressure valve of one of claims 1 through 6, characterized in that the connecting element (14), on the side remote from the base plate (12), has an adhesive layer (32) and can be adhesively bonded to the inside (2) of the packaging container.

9. The overpressure valve of one of claims 1 through 8, characterized in that the base plate (12) as well as the diaphragm (13) and the connecting element (14) each have an identical rectangular outer contour (15, 22, 29) in plan view.